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Signature

Berny L. Davison
Printed Name

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Laird et al.
Serial No.: 10/016,505
Filed: December 10, 2001
For: PROCESS FOR HIGH THROUGHPUT DNA METHYLATION ANALYSIS
Art Unit: 1634
Examiner: Jeanine Anne Goldberg
Docket No.: 47675-62
Date: July 13, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the requirements in 37 C.F.R. § 1.56, and in conformance with 37 C.F.R. 1.97 and 1.98, Applicants hereby submit an Information Disclosure Statement. Applicants respectfully request that the Examiner: (1) consider the following documents during the course of his or her examination of the above-identified patent application, and (2) list the following documents in the References Cited section of any patent that may issue from the above-identified patent application.

Applicant cites 21 references listed on the attached form PTO-1449. The order of these

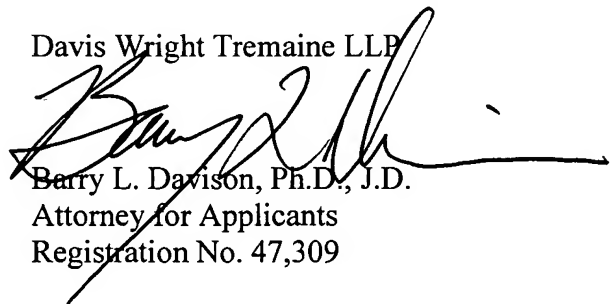
references should not be construed to suggest their relative pertinence. The Examiner is encouraged to review the entire disclosure of each reference in order to draw his or her own conclusions concerning the pertinence of the references to the claimed subject matter of this application. The filing of this Information Disclosure Statement should not be construed to suggest that a patentability search has been made or that the cited references are prior art or are considered to be material to patentability.

These documents came to the attention of the Applicants through an International Search Report issued in a related foreign application. A copy of this Search Report is included.

Applicants respectfully request consideration of the foregoing documents during examination of the above-identified patent application. Applicants have enclosed a completed Information Disclosure Statement by Applicant and copies of the non-US patent and non patent literature documents.

Respectfully submitted,

Davis Wright Tremaine LLP

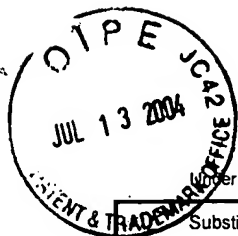
A handwritten signature in black ink, appearing to read 'Barry L. Davison', is written over the printed name and title.

Barry L. Davison, Ph.D., J.D.

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number	10/016,505
Filing Date	December 10, 2001
First Named Inventor	Laird
Art Unit	1634
Examiner Name	Jeanine Anne Goldberg
Attorney Docket Number	47675-62

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US1	US-5,876,930	03-02-1999	Flood et al.	
	US2	US-5,804,375	09-08-1998	Gelfand et al.	
	US3	US-5,736,333	04-07-1998	McBride et al.	
	US4	US-5,866,336	02-02-1999	Nazarenko et al.	
	US5	US-5,210,015	05-11-1993	Gelfand et al.	
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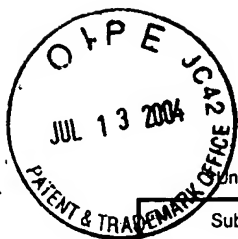
FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	F1	WO 9746705	12-11-1997	Univ Johns Hopkins Med		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04 ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450..



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Substitute for form 1449/PTO		Complete if Known	
				Application Number	10/016,505
				Filing Date	December 10, 2001
				First Named Inventor	Laird
				Art Unit	1634
				Examiner Name	Jeanine Anne Goldberg
Sheet	2	of	2	Attorney Docket Number	47675-62

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	O1	HERMAN, J.G. et al., Methylation-specific PCR: A novel PCR Assay for Methylation Status of CPG Islands, Proc. Natl. Acad. Sci, 93:9821-9826, 1996			
	O2	ZESCHNIGK, M. et al., A single-tube PCR test for the diagnosis of Angelman and Prader-Willi Syndrome based on allelic methylation differences at the SNRPN locus, Eur. J. Human Genet. 5:94-98, 1997			
	O3	KUBOTA, T. et al., A new assay for the analysis of X-chromosome inactivation based on methylation-specific PCR, Human Genet. 104:49-55, 1999			
	O4	BERNARD, P.S. et al., Homogeneous multiplex genotyping of hemochromatosis mutations with fluorescent hybridization probes, Am. J. Pathol. 153:1055-1061, 1998			
	O5	LEE, L.G. et al., Allelic Discrimination BZ nick-translation PCR with fluorogenic probes, Nucl. Acids. Res. 21:3761-3766, 1993			
	O6	HEID, C.A. et al., Real time quantitative PCR, Genome Research, Cold Spring Harbor Laboratory Press 6:986-994, 1996			
	O7	GIBSON, U.E.M. et al., A novel method for real time quantitative RT-PCR, Genome Research, Cold Spring Harbor Laboratory Press 6:995-1001, 1996			
	O8	LIVAK, K.J. et al., Oligonucleotides with fluorescent dyes at opposite ends provide a quenched probe system useful for detecting PCR product and nucleic acid hybridization, PCR Methods and Applications, 4:357-362, 1995			
	O9	SWAN, David C. et al., A sensitive type-specific, fluorogenic probe assay for detection of human papillomavirus DNA, J. Clin. Microbiol. 35:886-891, 1997			
	O10	TYAGI, S. et al., Multicolor molecular beacons for allele discrimination, Nature Biotechnology, 16:49-53, 1998			



	O11	FROMMER, M. et al., A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands, Proc. Natl. Acad. Sci. 89:1827-1831, 1992	
	O12	REIN et al., Identifying 5-methylcytosine and related modifications in DNA genomes, Nucl. Acids Res. 26:2255-2264, 1998	
	O13	HOLLAND, P.M. et al., Detection of specific polymerase chain reaction product by utilizing the 5' → 3' exonuclease activity of <i>thermus aquaticus</i> DNA polymerase, Proc. Natl. Acad. Sci. 88:7276-7280, 1991	
	O14	NAZARENKO et al., A closed tube format for amplification and detection of DNA based energy transfer, Nucl. Acids. Res. 25:2516-2521, 1997	
	O15	TYAGI, S. et al., Molecular Beacons: Probes that fluoresce upon hybridization, Nature Biotechnology 14:303-308, 1996	

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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